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TITLE: Optical waveguide - comprises base plate and light propagating medium partially coated with refractive index-modifying layer

Basic Abstract Text (2):

Pref. at least surface part of the base plate is of MgO, alpha-Al<sub>2</sub>O<sub>3</sub> (sapphire), spinel or SrTiO<sub>3</sub>, the light-propagating medium is composed of Ba-TiO<sub>3</sub>, PbTiO<sub>3</sub> or PLZT compound, and the covering layer is composed of quartz glass, silica glass, borosilicate glass or soda glass. Pref. the materials of (a) and (b) are Bi<sub>12</sub>GeO<sub>20</sub> and Bi<sub>12</sub>TiO<sub>20</sub> (or Bi<sub>12</sub>SiO<sub>20</sub>), LiTaO<sub>3</sub> and LiNbO<sub>3</sub>, GaP and GaAs, or alpha-Al<sub>2</sub>O<sub>3</sub> and ZnO (or Zns, CdS, ZnSe or ZnTe), respectively.

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